

Contents

Abstracted/Indexed in/Cited in: API Abstracts; Chemical Engineering and Biotechnology Abstracts; Catalysts & Catalysis; Chem Inform; Chemical Abstracts; Current Contents: Engineering; Current Contents: Engineering Index; Current Contents: Physical, Chemical & Earth Sciences; Engineering, Technology & Applied Sciences; Metals Abstracts; Research Alert; SCISEARCH; Science Citation Index; Theoretical Chemical Engineering Abstracts. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®

High-efficiency conversion of CO ₂ to fuel over ZnO/g-C ₃ N ₄ photocatalyst Y. He, Y. Wang, L. Zhang, B. Teng and M. Fan (USA, China)	1
Near-infrared light photocatalysis with metallic/semiconducting H _x WO ₃ /WO ₃ nanoheterostructure in situ formed in mesoporous template L. Zhang, W. Wang, S. Sun and D. Jiang (PR China)	9
Modulation of the selectivity in partial oxidation of methanol over CuZnAl catalysts by adding CO ₂ and/or H ₂ into the reaction feed S.R. González Carrazán, R. Wojcieszak, Raquel. M. Blanco, C. Mateos-Pedrero and P. Ruiz (Spain, France, Belgium)	14
Dye-sensitized photoelectrochemical cell on plasmonic Ag/AgCl @ chiral TiO ₂ nanofibers for treatment of urban wastewater effluents, with simultaneous production of hydrogen and electricity D. Wang, Y. Li, G. Li Puma, C. Wang, P. Wang, W. Zhang and Q. Wang (PR China, UK)	25
Carbon monoxide and ethanol oxidation on PtSn supported catalysts: Effect of the nature of the carbon support and Pt:Sn composition J. Asgardi, J.C. Calderón, F. Alcaide, A. Querejeta, L. Calvillo, M ^a .J. Lázaro, G. García and E. Pastor (Spain)	33
Synthesis, characterization, and catalytic evaluation of Co ₃ O ₄ /γ-Al ₂ O ₃ as methane combustion catalysts: Significance of Co species and the redox cycle Q. Wang, Y. Peng, J. Fu, G.Z. Kyzas, S.M.R. Billah and S. An (China, USA, Greece, UK)	42
Novel visible-light-driven CQDs/Bi ₂ WO ₆ hybrid materials with enhanced photocatalytic activity toward organic pollutants degradation and mechanism insight J. Di, J. Xia, Y. Ge, H. Li, H. Ji, H. Xu, Q. Zhang, H. Li and M. Li (PR China)	51
Assessment of catalytic dechlorination activity of suspended and immobilized bio-Pd NPs in different marine conditions B. Hosseinkhani, A. Nuzzo, G. Zananoli, F. Fava and N. Boon (Belgium, Italy)	62
Catalytic reduction of NO with H ₂ over redox-cycling Fe on CeO ₂ D. Prieto-Centurion, T.R. Eaton, C.A. Roberts, P.T. Fanson and J.M. Notestein (USA)	68
Design and performance evaluation of the functional coating for air purification under indoor conditions S. Lorencik, Q.L. Yu and H.J.H. Brouwers (The Netherlands)	77
Ceria-supported Au–CuO and Au–Co ₃ O ₄ catalysts for CO oxidation: An ¹⁸ O/ ¹⁶ O isotopic exchange study N.K. Gamboa-Rosales, J.L. Ayastuy, Z. Boukha, N. Bion, D. Duprez, J.A. Pérez-Omil, E. del Río and M.A. Gutiérrez-Ortiz (Spain, France)	87
One silver(I)/tetraphosphine coordination polymer showing good catalytic performance in the photodegradation of nitroaromatics in aqueous solution X.-Y. Wua, H.-X. Qia, J.-J. Ning, J.-F. Wang, Z.-G. Ren and J.-P. Lang (China)	98
Constructing ternary CdS/reduced graphene oxide/TiO ₂ nanotube arrays hybrids for enhanced visible-light-driven photoelectrochemical and photocatalytic activity H. Li, Z. Xia, J. Chen, L. Lei and J. Xing (China)	105
Role of chlorophyll in <i>Spirulina</i> on photocatalytic activity of CO ₂ reduction under visible light over modified N-doped TiO ₂ photocatalysts T. Phongamwong, M. Chareonpanich and J. Limtrakul (Thailand)	114
Photocatalytic reduction of CO ₂ with water vapor on surface La-modified TiO ₂ nanoparticles with enhanced CH ₄ selectivity Y. Liu, S. Zhou, J. Li, Y. Wang, G. Jiang, Z. Zhao, B. Liu, X. Gong, A. Duan, J. Liu, Y. Wei and L. Zhang (China)	125

(Contents continued on bm III)

ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com

